

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 58208721
PUBLICATION DATE : 05-12-83

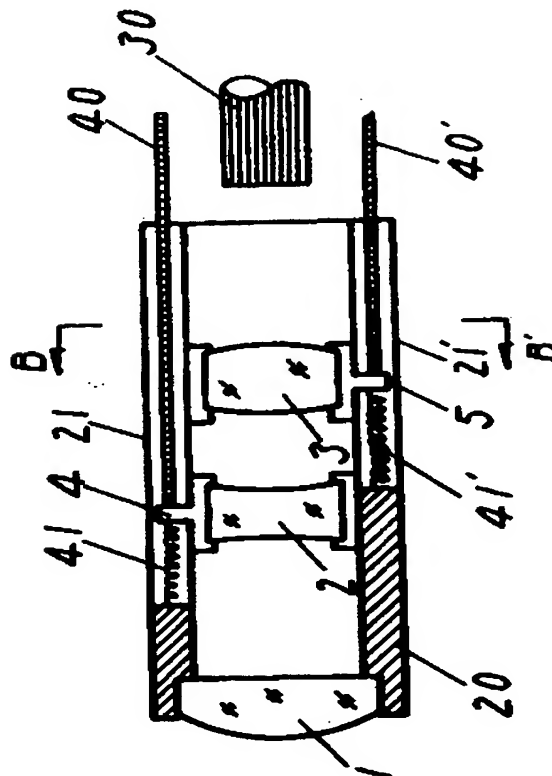
APPLICATION DATE : 31-05-82
APPLICATION NUMBER : 57092338

APPLICANT : FUJI PHOTO OPTICAL CO LTD;

INVENTOR : KISHIKAWA TOSHIRO;

INT.CL. : G02B 23/00 A61B 1/00 G02B 7/04

TITLE : ZOOMING MECHANISM OF
OBJECTIVE LENS FOR ENDOSCOPE



ABSTRACT : PURPOSE: To arrange a lens moving mechanism without expanding the outer diameter of a leading end part by arranging a means to regulate the relative positions of a moving lens group close to an operation part which is not inserted into the coelom and coupling said means with the moving lens group through a wire.

CONSTITUTION: Springs 41, 41' to excite the moving lenses 2, 3 in the left direction in the drawing and wires 40, 40' to move in the right direction are inserted into long penetration grooves 21, 21' extended in the optical axis direction of the lenses fitted to the inside of a lens mirror body 20. The movement of the moving lenses 2, 3 is controlled by individual wires respectively in accordance with the tensile strength of the wires 40, 40' and the exciting force of the springs 41, 41'. Consequently, the lens moving mechanism can be arranged without expanding the outer diameter of the leading end part.

COPYRIGHT: (C)1983,JPO&Japio